



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

APPLICANT(s): Sevanto

SERIAL NO.: 09/593,904 ART UNIT: 2665

FILING DATE: 6/14/2000 EXAMINER: Ho, Duc Chi

TITLE: METHOD AND ARRANGEMENT FOR INDICATING SERVICE
SPECIFICITY FOR PDP CONTEXTS

ATTORNEY

DOCKET NO.: 297-009503-US (PAR)

BOARD OF PATENT APPEALS AND INTERFERENCES
United States Patent and Trademark Office
P.O. Box 1450
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ATTENTION: BOARD OF PATENT APPEALS AND INTERFERENCES

APPELLANTS' BRIEF

This is an appeal from the final rejection of the claims in the above-identified application. A Notice of Appeal was mailed on April 11, 2005.

I. REAL PARTY IN INTEREST

The real party in interest in this Appeal is:

NOKIA MOBILE PHONES LTD.

II. RELATED APPEALS AND INTERFERENCES

There are no directly related appeals or interferences regarding this application.

III. STATUS OF CLAIMS

Claims 1-15 are pending in the application and have been finally rejected.

The claims on appeal are claims 1-15.

IV. STATUS OF AMENDMENTS

All previously submitted amendments have been entered.

Additionally, Applicant is submitting herewith an amendment to address the objections to the specification and the 35 U.S.C. §112, second paragraph rejection of claims 1-15. A copy of the amendment is attached.

V. SUMMARY OF CLAIMED SUBJECT MATTER

Applicant's invention is directed to, in a first embodiment, a method for indicating the specific use of a packet-switched communication connection between a mobile station and a fixed packet-switched data transmission network. (Pg. 1, lines 6-11; pg. 4, lines 16-19; FIG. 4 (401, 402, 403, 404); pg. 12, lines 27 et. seq.)

The activation of a new packet-switched communication connection involves transmitting an activation request message for activation of a packet-switched communication connection with a service type indicator field for which a set of service type indicator values have been defined. (Pg. 4, lines 31-36; pg. 5, lines 1-5; FIG. 2, (201); FIG. 3a; pg. 6, lines 34-37; pg. 7, lines 1-5; pg. 10, lines 2-23, FIG. 3c (322); pg. 10, line 32 to pg. 11, line 7; (FIG. 2b (257), FIG. 3d (331, 332)).

At least one of the service types defines a category. (Pg. 7, lines 6-15; FIG. 3a (302, 302a, 302b); pg. 8, lines 8-12; pg. 8, lines 23-28)

Within the activation request message (Pg. 7, lines 6-8; FIG. 3a(302), the following are transmitted:

an indicator value indicating the specific use. (Pg. 7, lines 8-9; FIG. 3a (302b); FIG. 3b(312b), FIG. 3c (322b); pg. 10, lines 19-27));

a subtype that falls within a category defined by a service type indicator value (Pg. 7, lines 13-15, FIG. 3a (302b); pg. 8, lines 8-12; pg. 10, lines 23-25).

Within the service type indicator field an indicator is transmitted that partly consists of a service type indicator value and partly consists of a second indicator value indicating the specific use of the packet-switched communication connection. (Pg. 4, lines 31-36; FIG. 3b (312, 302, 312a, 312b) pg. 8, lines 23-28).

In one embodiment, the activation request message is an Active Packet Data Protocol ("PDP") Context Request message and the service type indicator field is a PDP Type field. (Pg. 6, lines 35-37, FIG. 2a (201); FIG. 3a (301, 302); pg. 7, lines 6-15); pg. 8, lines 23-28).

In one embodiment, the activation request message is a Create PDP Context Request message and the service type indicator field is a PDP Type field. (Pg. 9, lines 21-24; FIG. 2, (207)).

In one embodiment, the activation request message is a PDU Notification Request message and the service type indicator field is a PDP Type field. (Pg. 10, lines 13-25; FIG. 25 (253); FIG. 3c (322, 322a, 322b)).

In one embodiment, the activation request message is a Request PDP Context Activation order and the service type indicator field is a PDP Type field. (Pg. 10, line 29 to pg. 11, line 4; (FIG. 2b (257); FIG. 3d (331, 332, 332a, 332b))).

In one embodiment, a configurations options field is transmitted within the activation request message. (Pg. 8, lines 1-3; FIG. 3a (306); (pg. 9, lines 7-8, FIG. 3b (316))). The configuration options field includes indicator value indicating the specific use, in more detail than the service type indicator values, of the packet-switched communication connection. (Pg. 8, lines 3-12; FIG. 3a (302); pg. 9, lines 9-12, FIG. 3b (316)).

In one embodiment, a second indicator value is stored that indicates the specific use of the packet-switched communication connection in association with a set of information used to charge a subscriber of the fixed packet-switched data transmission network for the use of services provided through the fixed packet-switched data transmission network. (Pg. 7, lines 9-11; FIG. 3a (302b); pg. 9, line 39 to pg. 10, line 7; FIG. 2a (212, 213)).

The storing of the second indicator value in association with a set of information used to charge a subscriber is accomplished in a Gateway General Packet radio Service ("GPRS") Supporting Node of a GPRS network (Pg. 12, lines 18-26; FIG. 4, 431), or a Serving GPRS Supporting Node of a GPRS network. (Pg. 12, lines 9-16; (FIG. 4, (421)).

In another aspect, the invention comprises an arrangement for providing packet-switched communication connections between a mobile station and a fixed packet-switched data transmission network and for indicating the specific use of a packet-switched communication connection. The arrangement includes means for transmitting an activation request message as an indicator for the need of activating a new packet-switched communication connection for which a set of service type indicator values have been defined, where at least one of the service type indicator values defines a category. (Pg. 11, lines 26-34 (FIG. 4, 401, 402, 403, 404); pg. 11, lines 37 to pg. 12, line 6).

The arrangement also includes means for transmitting, within the activation request message, an indicator value indicating the specific use, as a subtype that falls within a category defined by a service type indicator value, of the packet-switched communication connection. (Pg. 12, lines 9-26, FIG. 4, (403, 421-423, 404, 431-433)).

In one embodiment the arrangement includes means for transmitting, within a service type indicator field of the activation request message, an indicator that partly consists of a service type indicator value and partly consists of a second indicator value indicating the specific use of the packet-

switched communication connection (Pg. 8, lines 3-12; FIG. 3a (302); pg. 9, lines 9-12; FIG. 3b (316); FIG. 4 (403, 404)).

In one embodiment the arrangement includes means for transmitting, within the activation request message, a configuration options field and within the configuration options field the indicator value indicating the specific use, in more detail than the service type indicator (Pg. 8, lines 1-3; FIG. 3a (306); (pg. 9, lines 7-8, FIG. 3b (316); FIG. 4, (403, 404)).

In a further embodiment the arrangement includes a Serving General Packet Radio Service ("GPRS") Support Node and a Gateway General Packet Radio Service ("GPRS") Support Node and in at least one of them means for storing the second indicator value indicating the specific use of the packet-switched communication connection in association with a set of information used to charge a subscriber of the fixed packet-switched data transmission network for the use of services provided through the fixed packet-switched data transmission network. (FIG. 4, (403, 421, 404, 431); pg. 12, lines 14-16, 24-26)).

In a further aspect, the present invention is directed to a method of indicating a use of a packet-switched communication between a mobile station and a fixed packet switched data transmission network. In one embodiment the method includes transmitting an activation request message from the mobile station, the activation request messaging comprising a service type indicator field for which a set of service type indicator values are defined, at least one of the service type indicator values defining a category. (Pg. 6, lines 34-37; FIG. 2a (201); FIG. 3a; pg. 7, lines 6-15). Within the activation request

message, an indicator value field indicating a specific use is transmitted, as a subtype that falls within a category defined by a service type indicator value of the packet switched communication connection between the mobile station and the fixed packet switched data transmission network. (Pg. 7, lines 8-9; pg. 8, lines 25-26).

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Whether claims 1-6, 8-12 and 15 are anticipated by Cobo et al. ("Cobo") (U.S. Patent No. 6,496,690) under 35 U.S.C. §102(b).

VII. ARGUMENT

Applicant's invention recites, in claims 1, and 15, that "an indicator value indicating the specific use, in more detail than the service type indicator value, of the packet-switched communication connection" is transmitted within the activation request message.

This is not disclosed or suggested by Cobo. Cobo simply discloses that a Create PDP Context Request should be complemented with an indicator that describes the subscriber as having a "prepaid subscription". This is not the same as, and is distinctly different from an indicator value indicating the specific use, in more detail than the service type indicator value, of the packet-switched communication connection being transmitted within the activation request message.

The table in Fig. 5 in Cobo illustrates the existence of the prepaid indicator within the Create PDP Context Request message. In Cobo, information about the subscription being of the prepaid type is only passed between the network elements of the fixed network. Cobo never considers indicating the prepaid nature of

the subscription in e.g. an Activate PDP Context Request message, as claimed by Applicant.

In Cobo, the information about the subscription being prepaid is not connection specific, but is rather subscription-specific information. These are distinctly different concepts. In Applicant's invention, the claims recite indicating the specific use of a packet-switched communication connection between a mobile station and a fixed packet switched data transmission network. This is much more than merely the nature of a subscription. Cobo only indicates the nature of a subscription and only passes the information about the subscription being prepaid between the network elements of the fixed network.

The Examiner states that the reference in Cobo to a "prepaid subscriber class (PPSC) 40" is the same as an indicator value for a specific use. This is not an accurate assessment. Col. 7, lines 11-43 of Cobo does not make any disclosure relate to "use" as claimed by Applicant. Cobo merely deals with "subscriber data". (See col. 6, lines 17-30). A "prepaid subscriber class" is not the same as, and does not correspond to, a "service type" indicator field as is described and claimed by Applicant. Cobo does not disclose or suggest any type of connection-specific indicator for indicating the purpose of a connection. The claims in Applicant's invention specifically recite transmitting an "activation request message" with a "service type indicator field" and an "indicator value indicating the specific use". Cobo does not disclose or suggest any such connection specific indicators that indicate the purpose of a packet-switched communication. Cobo merely

provides "subscription-specific indications". The two are not the same.

for example in Cobo, a subscriber with a pre-paid subscription could request two different packet-switched connections, one for a service and another for something much different. In Cobo's invention, the request messages would include exactly the same information since both were ordered by the same subscriber. In Applicant's invention, each request would include a specific service type indicator.

Furthermore, claims 1, 11 and 15, recite that at least one of the service type indicators defines a category and that "an indicator value indicating the specific use, as a subtype that falls within a category defined by a service type indicator value" is transmitted in the activation request message.

This is not disclosed or suggested by Cobo. While Cobo discloses sending a prepaid type "indicator", the indicator is the same for all connections requested by a particular subscriber, completely irrelevant of use. In Applicant's invention, the indicator value indicates the specific use. Claims 1, 11 and 15 recite the significance of the indicator values and refer to service-specific, and not subscription-specific information.

Furthermore, in Applicant's invention, as recited in claims 1 and 11, the "indication" is transmitted in an activation request message and not in a create-type request message as in Cobo. In Cobo, at 83, the SGSN sends a Create PDP context message to the GGSN and includes the PPSC 40 (Col. 7, lines 50-51). This is

not the same as the Activation Request Message of Applicant's invention.

Thus, Cobo does not disclose or suggest each element of Applicant's invention as recited in claims 1, 11 and 15. Therefore, claims 1, 11 and 15 should be allowable. Claims 2-10 and 12-14 should also be allowable at least by reason of their respective dependencies.

With respect to claims 2 and 12 the value "01" of Table 1 is solely related to subscription data, not specific service types. Col. 6, lines 10-16 only relates to the subscription type field and not a "service type" indication field that indicates the "specific use" as recited in claims 2 and 12.

With respect to claim 4, there is no disclosure or suggestion of a "service type" indicator field. The "Prepaid" field 40 of Cobo merely indicates whether "Prepaid" over GPRS is active" and not a "service type" as claimed by Applicant.

Claim 5 again recites a service type indicator field. "Prepaid" 40 in FIG. 5 of Cobo is not a service type indicator field.

The features of claim 6 are also not anticipated for similar reasons.

With respect to claims 8 and 14 the value "01" in Table 1 of Cobo is only related to subscription data and not specific service types.

With respect to claims 9 and 14, the "changing ID" is not the "service type" indicator value as claimed by Applicant.

Therefore, each of the above-recited claims should be allowable for the reasons stated.

Claims 7 and 13 are indicated as being allowable.

A check in the amount of \$500 is enclosed herewith for the appeal brief fee. The Commissioner is hereby authorized to charge payment for any additional fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,



Geza C. Ziegler, Jr.
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13 JUNE 2005
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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date indicated below as first class mail in an envelope addressed to the Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, Attention: BOARD OF PATENT APPEALS AND INTERFERENCES

Date: 13 June 2005

Signature: Meagan Bayl
Person Making Deposit

VIII. CLAIM APPENDIX

The texts of the claims involved in the appeal are:

1. A method for indicating the specific use of a packet-switched communication connection between a mobile station and a fixed packet-switched data transmission network, where the activation of a new packet-switched communication connection involves the step of transmitting an activation request message with a service type indicator field for which a set of service type indicator values have been defined, at least one of the service type indicators defining a category, the method comprising the step of:

transmitting within the activation request message an indicator value indicating the specific use, a subtype that falls within a category defined by a service type indicator value, of the packet-switched communication connection the activation of which is requested with the activation request message.

2. A method according to claim 1, comprising the step of:

transmitting within the service type indicator field an indicator that partly consists of a service type indicator value and partly consists of a second indicator value indicating the specific use of the packet-switched communication connection the activation of which is requested with the activation request message.

3. A method according to claim 2, wherein the activation request message is an Activate Packet Data Protocol ("PDP") Context Request message and the service type indicator field is a PDP Type field.

4. A method according to claim 2, wherein the activation request message is a Create PDP Context Request message and the service type indicator field is a PDP Type field.

5. A method according to claim 2, wherein the activation request message is a PDU Notification Request message and the service type indicator field is a PDP Type field.

6. A method according to claim 2, wherein the activation request message is a Request PDP Context Activation order and the service type indicator field is a PDP Type field.

7. A method according to claim 1, comprising the step of:

transmitting within the activation request message a configuration options field and within said configuration options field said indicator value indicating the specific use, in more detail than the service type indicator values, of the packet-switched communication connection the activation of which is requested with the activation request message.

8. A method according to claim 1, additionally comprising the step of:

storing a second indicator value indicating the specific use of the packet-switched communication connection in association with a set of information used to charge a subscriber of the fixed packet-switched data transmission network for the use of services provided through the fixed packet-switched data transmission network.

9. A method according to claim 8, wherein said step of storing said second indicator value in association with a set of information used to charge a subscriber is accomplished in a Gateway General Packet Radio Service ("GPRS") Supporting Node of a GPRS network.

10. A method according to claim 8, wherein said step of storing said second indicator value in association with a set of information used to charge a subscriber is accomplished in a Serving GPRS Supporting Node of a GPRS network.

11. An arrangement for providing packet-switched communication connections between a mobile station and a fixed packet-switched data transmission network and for indicating the specific use of a packet-switched communication connection, comprising means for transmitting an activation request message as an indicator for the need of activating a new packet-switched communication connection for which a set of service type indicator values have

been defined, at least one of the service type indicator values defining a category, the arrangement comprising:

means for transmitting, within the activation request message, an indicator value indicating the specific use, as a subtype that falls within a category defined by a service type indicator value, of the packet-switched communication connection the activation of which is requested with the activation request message.

12. An arrangement according to claim 11, comprising means for transmitting, within a service type indicator field of the activation request message, an indicator that partly consists of a service type indicator value and partly consists of a second indicator value indicating the specific use of the packet-switched communication connection the activation of which is requested with the activation request message.

13. An arrangement according to claim 11, comprising means for transmitting, within the activation request message a configuration options field and within said configuration options field said indicator value indicating the specific use, in more detail than the service type indicator values, of the packet-switched communication connection the activation of which is requested with the activation request message.

14. An arrangement according to claim 11, comprising a Serving General Packet Radio Service ("GPRS") Support Node and a Gateway General Packet Radio Service ("GPRS") Support Node and in at least one of them means for storing said second indicator value indicating the specific use of the packet-switched communication connection in association with a set of information used to charge a subscriber of the fixed packet-switched data transmission network for the use of services provided through the fixed packet-switched data transmission network.

15. A method of indicating a use of a packet-switched communication between a mobile station and a fixed packet switched data transmission network comprising:

transmitting an activation request message from the mobile station, the activation request messaging comprising a service type indicator field for which a set of service type indicator values are defined, at least one of the service type indicator values defining a category;

transmitting, within the activation request message, an indicator value field indicating a specific use, as a subtype that falls within a category defined by a service type indicator value, of the packet switched communication connection between the mobile station and the fixed packet switched data transmission network,

IX. EVIDENCE APPENDIX

Not Applicable

X. RELATED PROCEEDINGS APPENDIX

Not Applicable



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APPLICANT(s): Sevanto

SERIAL NO.: 09/593,904 ART UNIT: 2665

FILING DATE: 6/14/2000 EXAMINER: Ho, Duc Chi

TITLE: METHOD AND ARRANGEMENT FOR INDICATING SERVICE
SPECIFICITY FOR PDP CONTEXTS

ATTORNEY

DOCKET NO.: 297-009503-US (PAR)

Mail Stop Amendment
Commissioner of Patents
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AMENDMENT

I. INTRODUCTION

This is in response to the Office Action mailed January 11, 2005 in regard to the above-identified patent application. Reconsideration of the rejection of the claims is respectfully solicited in light of the following amendment and remarks.

Please amend the Application as follows:

II. SPECIFICATION AMENDMENTS

Please replace the Abstract on page 17 as rewritten below:

A method and an arrangement are provided for indicating the specific use of a packet-switched communication connection between a mobile station {401} and a fixed packet-switched data transmission network. The activation of a new packet-switched communication connection involves the step of transmitting {201} an activation request message with a service type indicator field {302} for which a set of service type indicator values have been defined. An additional step is performed for transmitting within the activation request message an indicator value {302b, ~~312b, 322b, 332b~~} indicating the specific use, in more detail than the service type indicator values, of the packet-switched communication connection the activation of which is requested with the activation request message.

Fig. 3a

CLAIM AMENDMENTS

1. (Previously Presented) A method for indicating the specific use of a packet-switched communication connection between a mobile station and a fixed packet-switched data transmission network, where the activation of a new packet-switched communication connection involves the step of transmitting an activation request message with a service type indicator field for which a set of service type indicator values have been defined, at least one of the service type indicators defining a category, the method comprising the step of:

transmitting within the activation request message an indicator value indicating the specific use, a subtype that falls within a category defined by a service type indicator value, of the packet-switched communication connection the activation of which is requested with the activation request message.

2. (Original) A method according to claim 1, comprising the step of:

transmitting within the service type indicator field an indicator that partly consists of a service type indicator value and partly consists of a second indicator value indicating the specific use of the packet-switched communication connection the activation of which is requested with the activation request message.

3. (Previously Presented) A method according to claim 2, wherein the activation request message is an Activate Packet Data Protocol ("PDP") Context Request message and the service type indicator field is a PDP Type field.

4. (Original) A method according to claim 2, wherein the activation request message is a Create PDP Context Request message and the service type indicator field is a PDP Type field.

5. (Original) A method according to claim 2, wherein the activation request message is a PDU Notification Request message and the service type indicator field is a PDP Type field.

6. (Original) A method according to claim 2, wherein the activation request message is a Request PDP Context Activation order and the service type indicator field is a PDP Type field.

7. (Previously Presented) A method according to claim 1, comprising the step of:

transmitting within the activation request message a configuration options field and within said configuration options field said indicator value indicating the specific use, in more detail than the service type indicator values, of the packet-switched communication connection the activation of which is requested with the activation request message.

8. (Previously Presented) A method according to claim 1, additionally comprising the step of:

storing a second indicator value indicating the specific use of the packet-switched communication connection in association with a set of information used to charge a subscriber of the fixed packet-switched data transmission network for the use of services provided through the fixed packet-switched data transmission network.

9. (Previously Presented) A method according to claim 8, wherein said step of storing said second indicator value in association with a set of information used to charge a subscriber is accomplished in a Gateway General Packet Radio Service ("GPRS") Supporting Node of a GPRS network.

10. (Original) A method according to claim 8, wherein said step of storing said second indicator value in association with a set of information used to charge a subscriber is accomplished in a Serving GPRS Supporting Node of a GPRS network.

11. (Previously Presented) An arrangement for providing packet-switched communication connections between a mobile station and a fixed packet-switched data transmission network and for indicating the specific use of a packet-switched communication connection, comprising means for transmitting an activation request message as an indicator for the need of activating a new packet-switched communication connection for which a set of service type indicator values have been defined, at least one of

the service type indicator values defining a category, the arrangement comprising:

means for transmitting, within the activation request message, an indicator value indicating the specific use, as a subtype that falls within a category defined by a service type indicator value, of the packet-switched communication connection the activation of which is requested with the activation request message.

12. (Original) An arrangement according to claim 11, comprising means for transmitting, within a service type indicator field of the activation request message, an indicator that partly consists of a service type indicator value and partly consists of a second indicator value indicating the specific use of the packet-switched communication connection the activation of which is requested with the activation request message.

13. (Previously Presented) An arrangement according to claim 11, comprising means for transmitting, within the activation request message a configuration options field and within said configuration options field said indicator value indicating the specific use, in more detail than the service type indicator values, of the packet-switched communication connection the activation of which is requested with the activation request message.

14. (Previously Presented) An arrangement according to claim 11, comprising a Serving General Packet Radio Service ("GPRS") Support Node and a Gateway General Packet Radio Service ("GPRS")

Support Node and in at least one of them means for storing said second indicator value indicating the specific use of the packet-switched communication connection in association with a set of information used to charge a subscriber of the fixed packet-switched data transmission network for the use of services provided through the fixed packet-switched data transmission network.

15. (Previously Presented) A method of indicating a use of a packet-switched communication between a mobile station and a fixed packet switched data transmission network comprising:

transmitting an activation request message from the mobile station, the activation request messaging comprising a service type indicator field for which a set of service type indicator values are defined, at least one of the service type indicator values defining a category;

transmitting, within the activation request message, an indicator value field indicating a specific use, as a subtype that falls within a category defined by a service type indicator value, of the packet switched communication connection between the mobile station and the fixed packet switched data transmission network.

III. REMARKS

1. The Abstract is amended to address the noted objection.
2. With respect to the objection to the disclosure, FIG. 3c is referenced and described on page 10, lines 14-16, for example. No correction should be needed.
3. With respect to the rejection of claims 1-15 under 35 U.S.C. §112, second paragraph, support for the added limitations can be found at least on page 5, lines 24-31,

This amendment is being filed in conjunction with the filing of the Appeal Brief in furtherance of the Notice of Appeal filed April 11, 2005.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

The Commissioner is hereby authorized to charge any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,



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